

FIG 2 SUB CARRIER REFERENCE GENERATOR

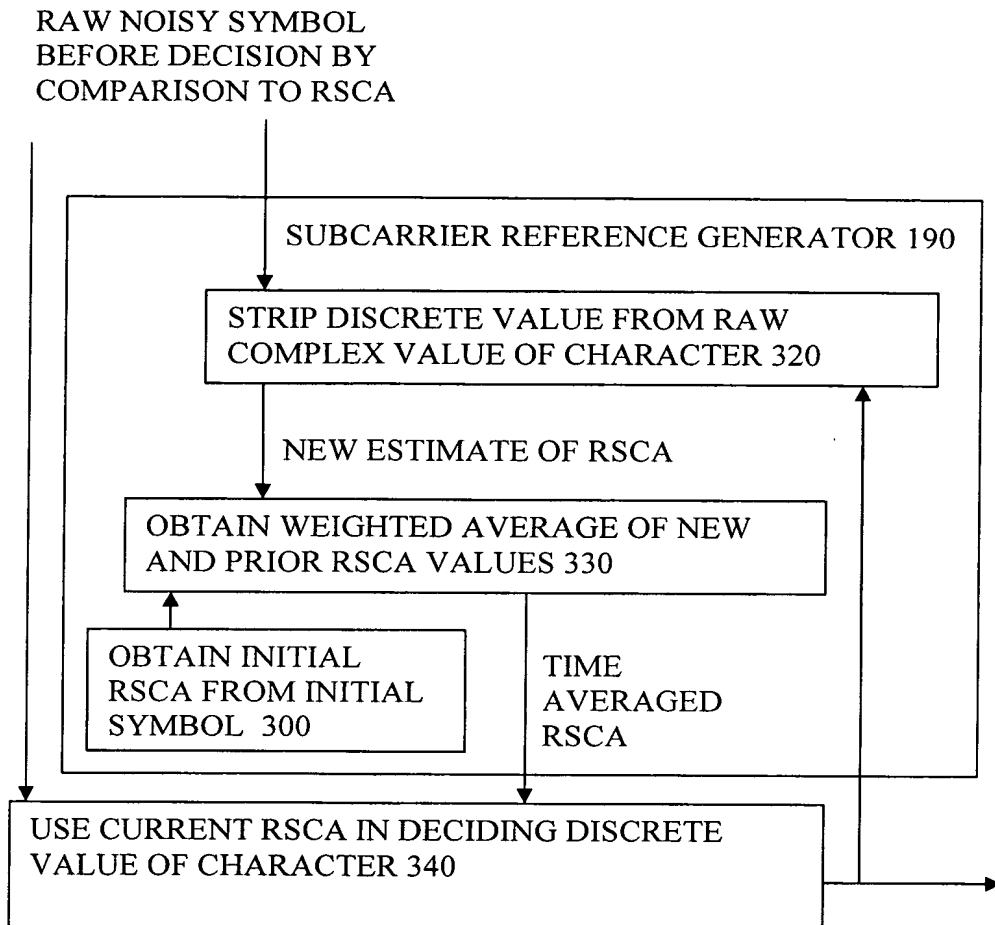


FIG 3. SUBCARRIER REFERENCE FOR EACH FREQUENCY OBTAINED BY AVERAGING VALUES DETERMINED AT DIFFERENT TIME INTERVALS

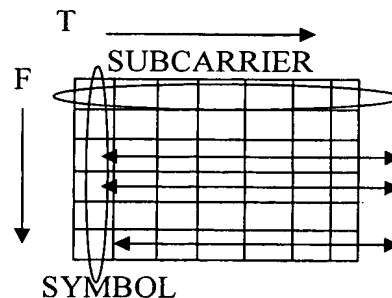


FIG 4 PHASE DRIFT CORRECTION FOR SUB CARRIER REFERENCE

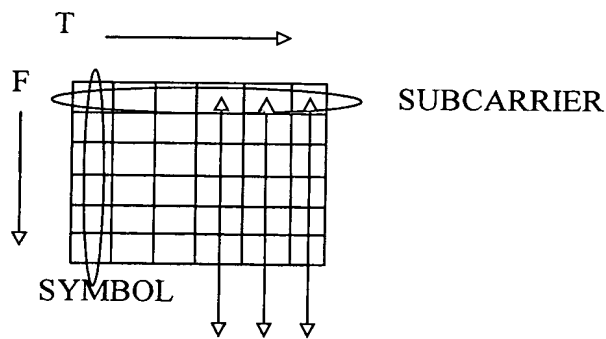
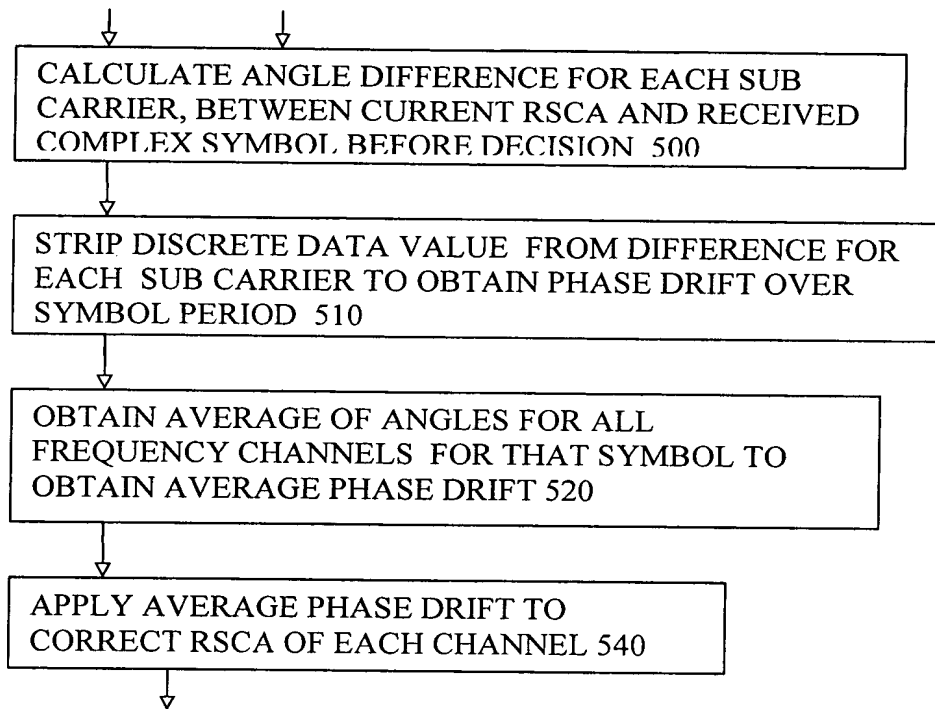


FIG 5. SUBCARRIER REFERENCE PHASE DRIFT AT EACH TIME INTERVAL IS OBTAINED BY AVERAGING VALUES DETERMINED AT ALL FREQUENCIES

FIG 6 PHASE DRIFT CORRECTION BY CONSTELLATION ROTATION

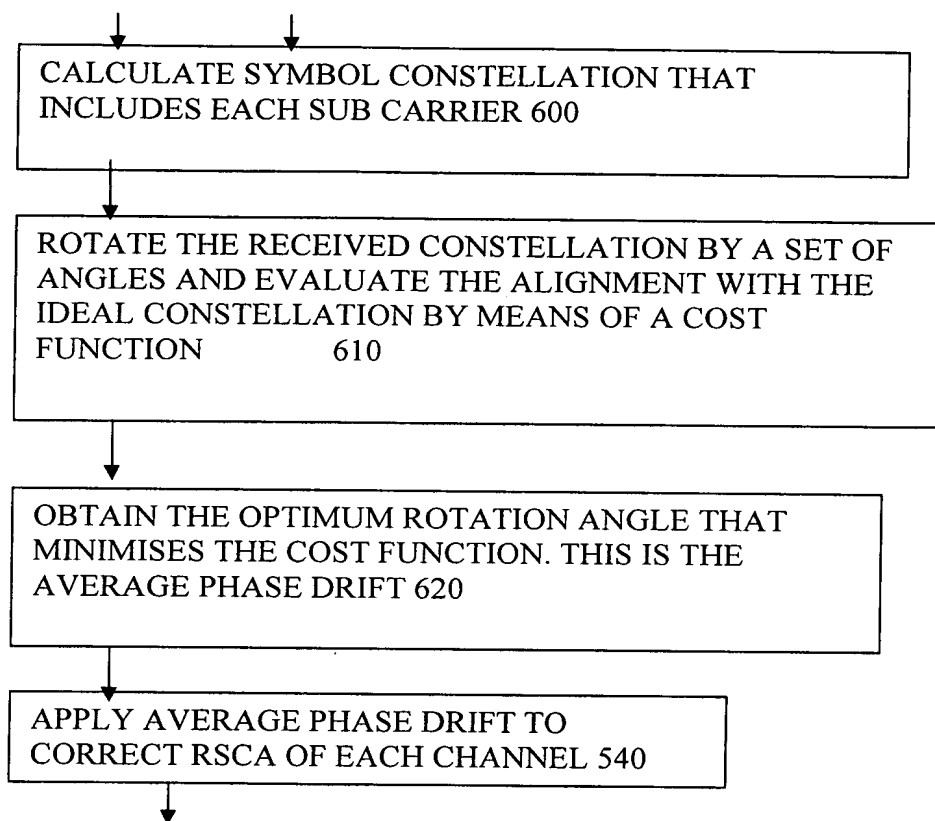


FIG 7

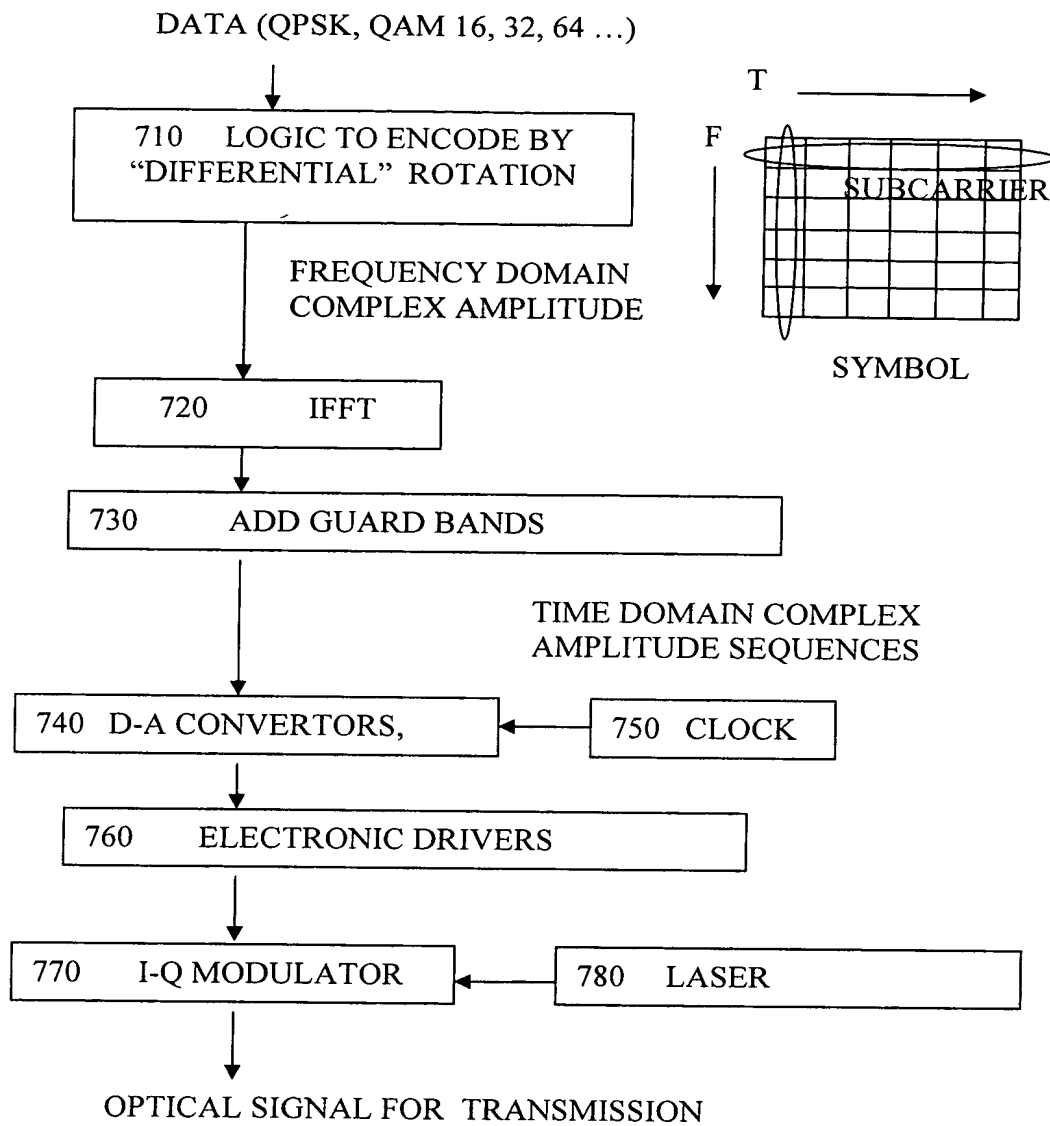


FIG 8 ENCODING

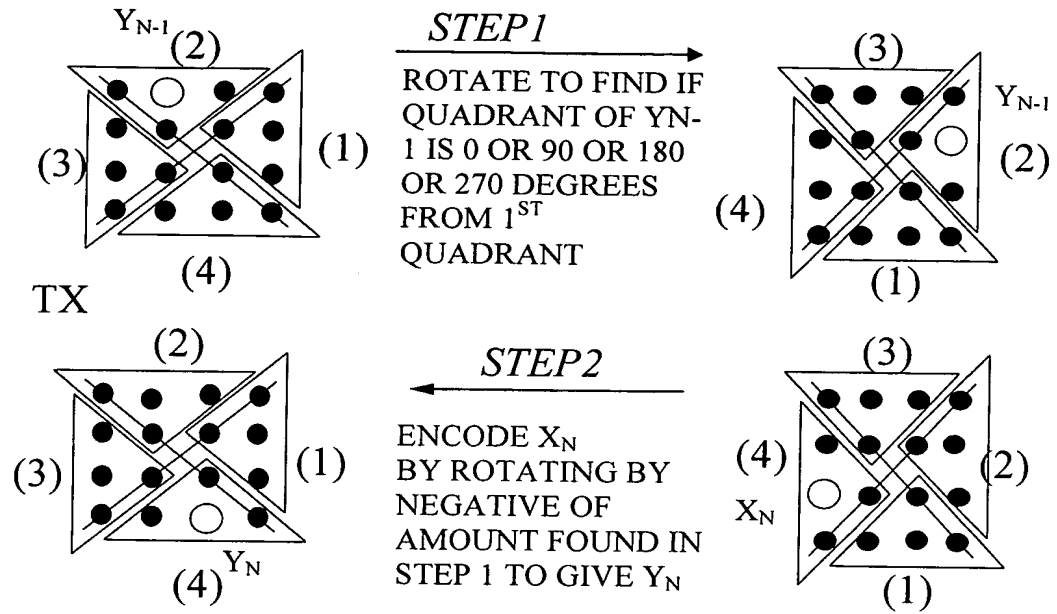
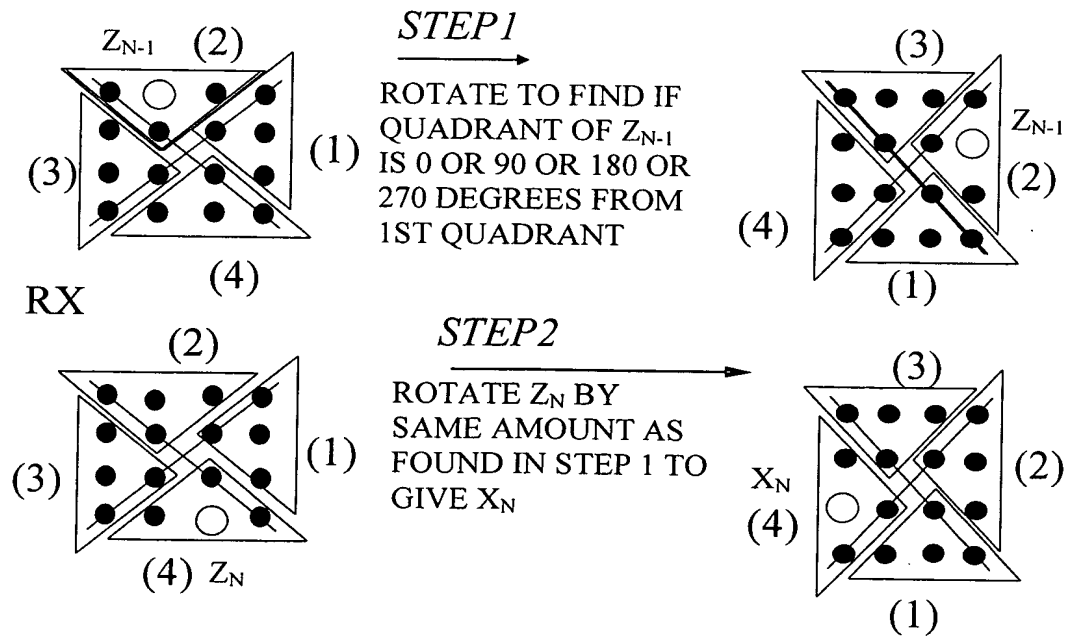


FIG 9 DECODING



**FIG 10 SUB CARRIER REFERENCE
GENERATOR WITH TIME AVERAGING
AND FREQUENCY AVERAGED PHASE
DRIFT CORRECTION**

RAW NOISY VALUES OF
SYMBOL BEFORE DECISION BY
COMPARISON TO RSCA

